

Key Stage 3 Geography at Desborough College

What are we learning?	Key Terms	Key Learning for this Unit	Useful Web links
<p>What is a Geographer?</p>	<ul style="list-style-type: none"> • Geographer • physical world • human world • environmental world • cartography • map • satellite image • continent • ocean • seas • latitude • longitude • Equator • Northern Hemisphere • Southern Hemisphere • the Tropics of Cancer and Capricorn 	<ul style="list-style-type: none"> • Being a geographer. • Asking geographical questions. • Conducting geographical enquiries. • Key aspects of studying people and places. • How to use geographical data including maps. 	<p>Degree Confluence Project - http://www.confluence.org</p> <p>Ordnance Survey Mapzone - https://www.ordnancesurvey.co.uk/mapzone/</p> <p>Digimap for Schools - https://digimapforschools.edina.ac.uk</p> <p>GoogleEarth - https://earth.google.com/web</p>

	<ul style="list-style-type: none"> • Arctic and Antarctic Circle • The Prime/Greenwich Meridian • Global Positioning System (GPS) • scale • linear scale • scale as a statement • eastings • northings 		
<p>How do we use our Planet as a Natural Resource?</p>	<ul style="list-style-type: none"> • natural resources • raw materials • renewable • non-renewable • geologists • fossilised • weathering • freeze-thaw weathering • chemical weathering 	<ul style="list-style-type: none"> • The different elements that make up our planet and how they interact. • How rocks and soils form and their importance to life. • What a biome is and how the rainforest biome works. • How people use the Earth's natural resources such as water, oil and energy supplies. 	<p>Introduction to Earth's spheres https://www.youtube.com/watch?v=BnpF0ndXk-8</p>

	<ul style="list-style-type: none"> • biological weathering • Industrial Revolution • porous • clay • impermeable • biome • water scarcity • crude oil • oil refinery • National Grid • solar power • wind power • nuclear • HWP • geothermal energy • tidal energy • biomass • fossil fuels • sustainability 	<ul style="list-style-type: none"> • The difference between renewable and non-renewable resources. 	
<p>What is Weather and Climate?</p>	<ul style="list-style-type: none"> • temperature • precipitation 	<ul style="list-style-type: none"> • The concepts of weather and climate. 	<p>Royal Meteorological Society http://www.metlink.org Met Office Learn about the weather</p>

	<ul style="list-style-type: none"> • air pressure • wind • humidity • sunshine • drought • weather stations • Meteorology • Synoptic code • dew point temperature • condensation • convectional rainfall • frontal rainfall • relief rainfall • air pressure • air mass • winds • anticyclones • isobars • dew • frost • fog • warm front 	<ul style="list-style-type: none"> • The elements that make up the weather and climate. • How the weather is measured. • How to read weather maps using the synoptic code. • How to distinguish between weather and climate. 	<p>https://www.metoffice.gov.uk/learning/learn-about-the-weather</p> <p>Met Office factsheets – 19 available on a wide range of weather-related topics packed full of excellent teaching resources</p> <p>https://www.metoffice.gov.uk/learning/library/publications/factsheets</p> <p>Met Office video collection</p> <p>https://www.metoffice.gov.uk/videos</p>
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	<ul style="list-style-type: none"> • warm sector • cold front • occluded front • climate graph • isotherms 		
Why are Rivers Important?	<ul style="list-style-type: none"> • source • mouth • estuary • evaporation • condensation • precipitation • intercepted • stored • infiltrating • run-off • surface run-off • throughflow • groundwater flow • watershed • hydrologists • abrasion 	<ul style="list-style-type: none"> • What rivers are and how water flows into them. • How weathering, erosion and transportation create river landforms. • To identify river landforms on OS maps. • Why rivers are important to people. 	<p>Your Tees' website focusing on the River Tees: http://www.rivertees.org.uk/</p> <p>Collection of clips about river processes and landforms: https://timeforgeography.co.uk/videos_list/rivers/</p> <p>Explanation of the water cycle from the Met Office: https://www.metoffice.gov.uk/learning/weather-for-kids/water-cycle</p> <p>Video clip explaining drainage basins: https://www.bbc.co.uk/programmes/p00xqb1l</p> <p>BBC KS3 Bitesize Rivers and Water: https://www.bbc.com/education/topics/zs92tfr</p> <p>Environment Agency: https://www.gov.uk/government/organisations/environment-agency</p> <p>News article about flooding in York in 2018: http://www.thenorthernecho.co.uk/news/16137182.River-Ouse-in-York-still-rising-temporary-flood-defences-in-place/</p> <p>News article about flooding in York in 2015:</p>

	<ul style="list-style-type: none">• attrition• hydraulic action• corrosion• transported• deposition• long profile• cross-profile• v-shaped valley• interlocking spurs• waterfall• plunge pool• gorge• meander• river cliff• slip-off slope• lateral erosion• flood plain• ox-bow lake• models• Bradshaw model• water supply		<p>http://www.yorkpress.co.uk/news/14168299.York_floods_2015__how the devastating_floods_unfolded_and_how_York_rallied_superbly/</p>
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	<ul style="list-style-type: none"> • reservoir • settlement • heavy industry • flood • cause • effect • response • Environment Agency • embankments • permanent walls • resilient homes • tree planting • land management • Drainage basin • River landforms • River processes 		
What is Development?	<ul style="list-style-type: none"> • Development • Quality of life • Developing • Gross National Income (GNI) 	<ul style="list-style-type: none"> • To define development • To compare development around the world • To understand where and why inequality occurs • To understand the actions taken by 	<p>Dollar Street: www.gapminder.org/dollar-street</p> <p>Gapminder: www.gapminder.org/tools</p> <p>World Bank: http://databank.worldbank.org/data/ website for up-to-date data on GNI and country profiles of development indicators. There is also a link on the website to the Atlas of Sustainable Development Goals 2017 http://hdl.handle.net/10986/26306 which gives further information on the SDG.</p>

	<ul style="list-style-type: none"> • GNI per capita • income • choropleth map • life expectancy • HDI • sustainability • ecological footprint • industrial development • inequality • gender inequality • child bride • international aid • bilateral aid • non-governmental aid • United Nations • Sustainable Development Goals: • 	<p>individuals, governments and communities to aid development</p>	<p>Human Development Report: http://hdr.undp.org/en/data Plan International: www.plan-international.org</p>
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<p>Is the Geography of Russia a Blessing or a curse?</p>	<ul style="list-style-type: none"> • Plain • continental climate • taiga • tundra • population density • choropleth • densely populated • sparsely populated • Arctic • Arctic Circle • Sea ice • Exclusive economic zone (EEZ) • Greenpeace • Indigenous • 	<ul style="list-style-type: none"> • What Russia is like. • The physical landscape, climate and natural environment of Russia • How Russia's physical geography has influenced its human geography. • How important Russia is to the world. 	<p>Interactive Satellite map of Russia: http://satellites.pro/Russia</p> <p>BBC country profile: https://www.bbc.co.uk/news/world-europe-17839672</p> <p>BBC TV series Russia with Simon Reeve:</p>
<p>How are Populations Changing?</p>	<ul style="list-style-type: none"> • population • population growth • census • population distribution 	<ul style="list-style-type: none"> • know the global distribution of population, and location of the world's major cities • know the impact of population change in 	<p>World Population clock: http://www.worldometers.info/world-population/</p> <p>Population pyramids: https://www.populationpyramid.net</p> <p>International Organisation for Migration – A UN agency: http://www.iom.int/world-migration</p>

	<ul style="list-style-type: none"> • population density • sparsely populated • densely populated • birth rate • death rate • natural increase and decrease • industrialised • Demographic Transition Model • population pyramid • underpopulation • overpopulation • migrant • migration • immigrant • voluntary migrants • forced migrants • refugees • push and pull factors • deported 	<p>Southampton 1801 to the present</p> <ul style="list-style-type: none"> • understand the population control strategies in Russia and China. 	<p>Luminocity world urbanisation: http://luminocity3d.org/WorldCity/</p>
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	<ul style="list-style-type: none"> • illegal migration • urbanisation • rural to urban migration • Central Business District • inner city • inner suburbs • outer suburbs • Burgess concentric ring land use model • four levels of income 		
<p>What Happens Where the Land Meets the Sea?</p>	<ul style="list-style-type: none"> • coast • coastline • coastal engineer marine • sub-marine • sub-aerial • geomorphology • geomorphic • weathering • erosion • sub-aerial erosion 	<ul style="list-style-type: none"> • To understand how erosion, deposition and transportation create and change coastal landforms over time. • To consider how the coast is used by people. • To understand the need for, and impact of, different coastal management strategies. 	<p>www.bgs.ac.uk – British Geological Survey geology map layers for UK</p> <p>https://bit.ly/135v4E0 – Holderness context</p> <p>https://bit.ly/2wbaXom – Holderness context and overview</p> <p>https://bit.ly/2Meg4PL – free download of BGS Google Earth KMZ file</p> <p>https://bit.ly/2MMS8zc – Environment Agency report</p>

	<ul style="list-style-type: none">• glacial till• sedimentary• erosion• hydraulic action• attrition• abrasion• corrosion• headland• bay• caves• arches• stacks• stumps• hydraulic action• abrasion• erosion• undercut• wave-cut platform• notch• weathering• longshore drift• waves• constructive• destructive		
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	<ul style="list-style-type: none">• fetch• swash• backwash• transportation• dominant wave direction• prevailing wind• deposition• beach• spit• bar• longshore drift• bay• lagoon• tombolo• prevailing wind• salt marsh• erosion• prevailing wave and wind• landslide• cliff collapse• agricultural• SSSI		
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	<ul style="list-style-type: none">• hard/soft engineering• sustainability• groyne• sea wall• rock armour• managed retreat• gabions• beach recharge• coastal engineer• hold the line• do nothing• stakeholders• flood• risk• hard and soft engineering• erosion• processes• geology• weathering• erosion• coastal management		
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	<ul style="list-style-type: none"> • sustainable • environment • deposition • transportation • waves • constructive • destructive • landforms • hard and soft engineering • hydraulic action • abrasion • attrition • corrosion 		
<p>Can we Ever Know Enough about Earthquakes and Volcano's to Live Safely?</p>	<ul style="list-style-type: none"> • Natural hazard • Natural disaster • Earthquake • Volcano • Pangaea • Continental drift • Lithosphere • Mountain belt • Mid-ocean ridges • Ocean trenches 	<ul style="list-style-type: none"> • The theory of plate tectonics • How volcanoes and earthquakes are linked to plate tectonics • The hazards for people associated with these events • How scientists attempt to predict, manage and prevent these hazards 	<ul style="list-style-type: none"> • Minute Earth summary of Plate tectonics: https://www.youtube.com/watch?v=kwfNGatxUJI&index=10&list=PLEIB7nLNHZvhfuBhJ73p1hnoI3e3NBV5n • Earth Learning Ideas publish a range of Earth-related teaching ideas, designed to be practical resources for teachers and teacher-trainers: http://www.earthlearningidea.com/search/search.cgi?Match=1&Realm=ELI-PDF&Terms=plate+tectonics • What drives the plates? Using a pupil model to demonstrate that slab pull is the main plate-driving force: http://www.earthlearningidea.com/PDF/217_Slab_pull.pdf

	<ul style="list-style-type: none"> • Lithosphere • Lithospheric or tectonic plates • Plate tectonics • Lithosphere • Destructive or convergent plate boundaries • Constructive or divergent plate boundaries • Lithospheric or tectonic plates • Conservative or transform plate boundaries • Magma • Plate tectonics • Subduction • Ridge push • Slab pull • Main shock • Seismic waves • Convergent plate boundary 		<ul style="list-style-type: none"> • Geological Society. An excellent set of resources mainly aimed at pupils age 14–16, but easily adapted for KS3: https://www.geolsoc.org.uk/Plate-Tectonics • A set of downloadable worksheets, for either individual or classroom use: https://www.geolsoc.org.uk/Plate-Tectonics/Teachers-Zone/Worksheets • Lithospheric plates worksheet – Using the world plates map: https://www.geolsoc.org.uk/~media/shared/documents/KS4/T%20ZONE%20PlatesWorksheet%20(2).pdf?la=en • ESRI ArcGIS Storymap Plate tectonics: http://gisinschools-nz.maps.arcgis.com/apps/MapJournal/index.html?appid=df5f94c0050b4075adfbba54fb13eaeb • Alfred Wegener song – the Amoeba people present the posthumous triumph of Alfred Wegener: https://www.youtube.com/watch?v=T1-cES1Ekto • Website of the Global Volcanism Program from the Smithsonian Institute: https://volcano.si.edu/
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	<ul style="list-style-type: none">• Destructive plate boundary• Lithospheric or tectonic plates• Natural disaster• Natural hazard• natural disaster• natural hazard• prediction• preparation• protection• Lithosphere• Composite volcano• Convergent plate boundary• Destructive plate boundary• Magma• Shield volcanoes• Composite or stratovolcano• Active volcano• Dormant volcano• Extinct volcano		
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	<ul style="list-style-type: none"> • Prediction • Preparation and planning • Protection 		
Climate Change and the Earth's Future	<ul style="list-style-type: none"> • Climate change • Greenhouse effect • Greenhouse gases 	<ul style="list-style-type: none"> • That climate change is a controversial issue affecting the future of the planet • About the evidence of climate change • The causes and consequences of climate change • About the options for the planet's future 	<p>Climate Central – portal for scientific investigation of climate change: http://www.climatecentral.org</p> <p>NASA evidence site for climate change: https://climate.nasa.gov</p> <p>Earth Vision Institute multimedia tool Getting the picture : Our Changing Climate: http://gettingthepicture.info</p> <p>BBC News – six graphics that explain climate change: https://www.bbc.co.uk/news/resources/idt-5aceb360-8bc3-4741-99f0-2e4f76ca02bb</p> <p>GIS geography – maps explaining climate change: https://gisgeography.com/climate-change-effects-maps/</p>
What are the Challenges and Opportunities Facing Africa?	<ul style="list-style-type: none"> • Country • Continent • Physical landscape • Natural resources • Colonisation • Imperialist • Berlin Conference • Development • Poverty • Wilderness 	<ul style="list-style-type: none"> • The physical and human geography of Africa • Africa's colonial history • Some of the challenges facing the continent • Some of the opportunities to develop and change 	<ul style="list-style-type: none"> • The Africa section of BBC news has many topical stories that relate to the themes explored in this unit: https://www.bbc.co.uk/news/world/africa • The Africa section of CNN news: https://edition.cnn.com/africa • African news.com: http://www.africanews.com • BBC Africa wildlife TV series provides an excellent range of clips of different landscapes: https://www.bbc.co.uk/programmes/p010jc6p • www.gapminder.org • http://confluence.org

	<ul style="list-style-type: none">• Life expectancy• Income Human development index (HDI) <ul style="list-style-type: none">• Desert• Savanna• Rainforest• Migration• Desertification• Famine• Vulnerability• Drought• Population density• Sparsely populated• Demographic Transition Model• Population structure• Population pyramid• Urbanisation• Push and pull factors• Trade		
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	<ul style="list-style-type: none"> • Exports • Investment • Inference • Quality of life 		
Why is the Middle East an Important World Region?	<ul style="list-style-type: none"> • Mediterranean climate • Desalination • Crude oil • Diversification 	<ul style="list-style-type: none"> • Where the Middle East region is located • What countries make up the region • The physical landscape of the Middle East • The human geography of the region • Examples of conflict and controversy in the Middle East • How important the region is to the world 	<p>Middle East Tour A tour of the Middle East, including images of Turkey, Syria, Jordan, and Egypt https://vimeo.com/20044615</p> <p>Degree Confluence website http://www.confluence.org</p> <p>National Geographic video – See how life has changed in the Middle East over 58 years https://video.nationalgeographic.com/video/short-film-showcase/see-how-life-has-changed-in-the-middle-east-over-58-years</p>
What is an Economy and Globalisation?	<ul style="list-style-type: none"> • employment • structure economy • manufacturing • service • economy • economic structure 	<ul style="list-style-type: none"> • Economic activities and what they are like at different scales, from local to global. • Ways in which jobs can be arranged into groups or sectors. 	<p>Video clip of farming to initially engage the class (2 min 50 sec) https://vimeo.com/265956123</p> <p>Visit Britain – When You Think of Us – OMGB – 60 Second Spot – Director’s Cut https://vimeo.com/185370810</p> <p>Shaun the Sheep and his flock of friends have a BAAAAARRRIIIIIIIIIIIANT time exploring the UK in 2015 https://www.visitbritain.org/our-great-story-so-far-domestic</p>

	<ul style="list-style-type: none"> • arable • pastoral • mixed farms • market gardens • profit • loss • disposable income • native • trade • imports • exports • balance of trade • transnational • multinational companies • globalisation • markets 	<ul style="list-style-type: none"> • The range of jobs people do and how jobs have changed over time. • Trade and how it has become global. • The UK economy, how it has developed and how our links with the world have grown. 	<p>Visit Britain 2011 – You're Invited – 60 Second Advert Commercial https://www.youtube.com/watch?v=9hL9yDOK48A</p> <p>The cocoa journey – Shady Chocolate (1 min 55 sec) https://vimeo.com/55942103</p> <p>From cocoa to chocolate: the long journey of a great tasting product! (2 min 25 sec) https://vimeo.com/121506041</p> <p>How chocolate is made https://www.youtube.com/watch?v=fiMjr3Rwdjs</p> <p>Divine chocolate – useful facts and resources http://www.divinechocolate.com/uk/about-us/research-resources/resources/chocolate-facts</p> <p>Extract from this 10 min 20 sec video of drone footage of the OOCL Hong Kong https://www.youtube.com/watch?v=MnWuIWA6sEg World's largest container ship https://www.youtube.com/watch?v=9WCD70U05mM&feature=youtu.be</p> <p>Trade https://www.nationalgeographic.org/activity/the-trading-game/ https://www.oxfam.org.uk/education/resources/find-your-way-through-trade</p>
<p>How does Ice Change the World?</p>	<ul style="list-style-type: none"> • Glacier • Glaciologists • Alpine glaciers 	<ul style="list-style-type: none"> • How ice changes the world 	<ul style="list-style-type: none"> • BBC Glaciers: http://www.bbc.co.uk/science/earth/water_and_ice/glaciers/p00gbfzl

	<ul style="list-style-type: none"> • Ice sheets • Ice age • Interglacials • Zone of accumulation • Zone of ablation • Crevasses • Plucking • Abrasion • Striations • Moraine • Meltwater • Freeze-thaw weathering • Corries • Tarns • Arêtes • Pyramidal peaks, • U-shaped valley • Hanging valley • Truncated spurs • Ribbon lakes • Fjords • Misfit river 	<ul style="list-style-type: none"> • How erosion and transportation create glacial landforms • Identifying glacial landforms on OS maps • How the distribution of ice around the world changes through time 	<ul style="list-style-type: none"> • Swiss glacial site: http://www.swisseduc.ch/glaciers/ • National Snow and Ice Centre: http://nsidc.org • Digimap for schools: http://digimapforschools.edina.ac.uk <p>James Balog created the Extreme Ice Survey (EIS) to share time-lapse footage of several glaciers in order to demonstrate the rapid</p>
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	<ul style="list-style-type: none"> • Glacial till • Erratics • Drumlin • Outwash plains • Terminal moraine • Lateral moraine • Medial moraine • Glaciologists • Repeat photography 		
How are Asia and China Being Transformed?	<ul style="list-style-type: none"> • diverse • continent • monsoon • flood • transboundary water • UNICEF • deforestation • biome • adaptation • population pyramid • Silicon Valley • census data 	<ul style="list-style-type: none"> • Asia's diverse physical and human geography • How Asia is a continent of dynamic change • The changing relationship between Asia and the rest of the world 	<ul style="list-style-type: none"> • Dollar Street Website: https://www.gapminder.org/dollar-street/matrix • Gapminder: https://www.gapminder.org/ • Met Office for monsoon formation: https://www.metoffice.gov.uk/videos/5502225157001 • Population pyramids: https://www.populationpyramid.net • Visualisation showing global connectivity: https://blueshift.io/international-trade.html

	<ul style="list-style-type: none">• urbanisation• megacities• migrating• rural• urban• slum• bottom-up approaches• interdependent• infrastructure• manufacturing• trade		
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